Installing WOODWARD TIER II Updates and TIER III Software

Revised 9/6//07

IMPORTANT: It is **STRONGLY RECOMMENDED** that you completely read and understand these Software Installation Instructions before attempting to install or update the Woodward TIER II and TIER III Software!

IMPORTANT: **In order to install and run this software the Operating System of your computer must be Windows 2000, XP, or Vista, the software WILL NOT work with a "Windows 98" or older Operating System!**

PREPARATION:

1.) Turn-on and completely Boot up your computer.

2.) Look in the lower right corner of your Computer Screen for the ECU Server Icon (Satellite Dish).
- A.) If the Satellite Icon is there, right mouse click on the icon and select Exit from the menu screen.
  - 1.) Proceed to Step #3.
- B.) If the Satellite Icon is not there proceed to step number #3.

UNINSTALL WOODWARD MOTOSERVICE PROGRAM:

3.) Click on the Start Menu Button in the lower left corner of your computer screen.
- A.) Double click on the Control Panel Icon in the right hand column.
- B.) Scroll down through the menu selection and double click on the Add or Remove Programs Icon.
- C.) Scroll down through the Programs Menu and select the MotoService Program.
  - 1.) Click on the Change/Remove Button, this will start the "InstallShield Wizard".
    - a.) Select the "Remove" Option in the InstallShield Wizard Menu.
      - 1.) Click on the Next Button on the right-side bottom of the InstallShield Menu.
        - a.) The InstallShield Wizard may ask "Do you want to completely remove the selected application and all its features?", click on "YES".
    - b.) The InstallShield Wizard will now remove all installed components of the MotoService Program.
    - c.) When the InstallShield Wizard is done removing the MotoService Program it will ask you if that is all or it will tell you it has finished uninstalling MotoService, click on Finish Button at the bottom of the menu screen.
- D.) MotoService has now been removed from your computer.

4.) Click on the "X" in the top left corner of the Add or Remove Programs Menu Screen.
- A.) This will close the Add or Remove Programs Menu.

5.) Click on the "X" in the top right corner of the Control Panel Menu.
- A.) This will close the Control Panel Menu.

6.) Restart you computer.

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CREATING DESKTOP WOODWARD FOLDER:

7.) After your computer had completely Restarted and Booted up, right mouse click on your Desktop Screen any place that is clear of all Program and File Icons.
   A.) Scroll down the Menu Screen until "New" is highlighted; the "New" Menu Screen will appear next to the Desktop Menu Screen.
      1.) In the New Menu Screen, double click on the Folder Icon, a New File Folder should appear on your Desktop Screen.
         a.) Type the name "CLARK" into the New Folder's Label Field.
      2.) Double click on your Desktop Screen any place away from all Program and File Icons.
         a.) The "New Folder" should now be named "CLARK".

COPYING "EPA 2007 Update Files" INTO WOODWARD DESKTOP FILE:

8.) Insert the MotoService TIER III Disc into the CD Drive of your computer.
   A.) Allow approximately one (1) minute for the MotoService CD to load into your computer.

9.) Click on the Start Menu Button in the lower left corner of your computer screen.
   A.) Double Click on the My Computer Icon on the right side of the Menu Screen.
      1.) The CD Drive of your Computer should now be named "EPA 2007 Update".
   B.) Double click on the EPA 2007 Update Icon.
      1.) There should be ten (10) files that appear on you computer screen, they are as follows:
         A.) ECUFiles
         B.) KVASER & Token Update Software
         C.) INSTRUCTIONS
         D.) setup.EXE
         E.) MI-07 Tier III Manual 4.3L
         F.) MI-07 Service training June 22
         G.) MI-07 Tier III Manual 2.0 2.4 Mits
         H.) MI-07 User Manual
         I.) Clark Wiring Diagrams 8 28 07
         J.) DFC_List_Clark

10.) Go to the top left side of your computer screen and click on the word "Edit".
   A.) Scroll down the Edit Menu and click once (1) on the Select All Option.
      1.) All ten (10) files of the EPA 2007 Update Menu should become highlighted.

   IMPORTANT: If you do not see the "Select All" Option, scroll down to the bottom of the Edit Menu Screen and click on the down arrow, the whole Edit Menu should appear.

   B.) Go to the top left side of your computer screen and click on the word "Edit".
      1.) Scroll down the Edit Menu and click once (1) on the Copy Option.
         a.) All ten (10) files of the EPA 2007 Update CD should now be copied to your computer clipboard.

   IMPORTANT: If you do not see the "Copy" Option, scroll down to the bottom of the Edit Menu Screen and click on the down arrow, the whole Edit Menu should appear.

11.) In the top right hand corner (Blue Section) of the EPA 2007 Update Menu Screen click on the "X" and close the EPA 2007 Update Menu.

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12.) On your computer Desktop Screen double click on the Clark File Icon.
   A.) This will bring up the empty CLARK Menu.

13.) Go to the top left side of the CLARK Menu Screen and click on the word "Edit".
   B.) Scroll down the Edit Menu and click once (1) on the Paste Option.
   C.) All of the EPA 2007 Update Files should now be copied into the Woodward File.
   IMPORTANT: If you do not see the "Paste" Option, scroll down to the bottom of the Edit Menu Screen and click on the down arrow, the whole Edit Menu should appear.
      1.) All ten (10) files of the "EPA 2007 Update CD" are now in the CLARK File on your Desktop.

INSTALLING THE "EPA 2007 Update Files" INTO YOUR COMPUTER:

14.) Double click on the "setup.exe" Icon in the CLARK File Menu on your desktop.
   A.) This will start the InstallShield Wizard.
      1.) The MotoService TIER III Program will install into your computer without any modification to the installation process. As the InstallShield Wizard works through the installation process it will present to you a number of Menu Screens, any time a Menu Screen appears, click on the Next or Yes Button at the bottom of the Menu Screen.
         a.) During the Installation Procedure an InstallShield Wizard Menu Screen for Customer Information may appear, when / if it does we recommend you type the Dealership Name into both the User and Company Names.
         b.) During the Installation Procedure an InstallShield Wizard will ask if you would perfer Shortcuts for the Diagnostics Programs placed on your Desktop, **we recommend you answer <u>NO</u> and do not** allow these Shorctcuts to be placed on your Desktop.
   B.) The last Menu Screen you should see will tell you the InstallShield Wizard has finished "installing" **<u>OR</u>** "performing maintenance operations on" MotoService on your computer.
      1.) Click on the Finish Button at the bottom of the Menu Screen.
         a.) The InstallShield Wizard will finish installing the Woodward MotoService Software and the InstallShield Wizard Menu Window will close.

15.) The Woodward MotoService Software has now been installed onto your computer.
   A.) To complete the installation Turn-Off and Restart your computer.

UDATING THE CRYPT TOKEN AND KVASER CAN USB:

16.) Insert the Crypt Token into an available USB Port on your computer.
   A.) A Pop-Up Window **may or may not** appear on your Desktop Screen indicating the computer has detected New Hardware.

18.) Insert the Kvaser CAN USB Connection into an available USB Port on your computer. ***If your computer does not have a second USB Port, and appropriate USB Hub will need to be used.***
   A.) Again a Pop-Up Window **may or may not** appear on your Desktop Screen indicating the computer has detected New Hardware.

19.) **If** the Found New Hardware Wizard **has** appeared on your computer screen **PROCEED TO**

Installing WOODWARD TIER II Updates and TIER III Software

STEP NUMBER #21.

20.) **If** the Found New Hardware Wizard **has not** appeared on your computer screen:

FOR THE CRYPT TOKEN:

A.) Click on the Start Menu Button in the lower left corner of your computer screen.
- 1.) Double click on the Control Panel Icon in the right hand column.
  - a.) Scroll down through the menu selection and double click on the Add Hardware Icon.
  - b.) The Add Hardware Wizard Menu will appear on your computer screen.
    - 1.) Click the Next Button at the bottom of the Add Hardware Menu Screen.
  - c.) The next Add Hardware Menu Screen will ask you if the Hardware is connected, select the "Yes, I have already connected the hardware" option.
    - 1.) Click the Next Button at the bottom of the Add Hardware Menu Screen.
  - d.) The next Add Hardware Menu Screen will ask you to select the Installed Hardware.
    - 1.) Scroll down the Installed Hardware List and select the "Kvaser Virtual CAN Driver" this is the Crypt Token.
    - 2.) Click the Next Button at the bottom of the Add Hardware Menu Screen.
  - e.) The next Add Hardware Menu Screen will be the Completion Screen.
    - 1.) Click the Finish Button at the bottom of the Add Hardware Menu Screen.
    - 2.) The Add Hardware Menu will finish installing / updating the "Kvaser Virtual CAN Driver" or the Crypt Token and the Add Hardware Menu Screen will close.

FOR THE KAVASER CAN USB:

A.) Click on the Start Menu Button in the lower left corner of your computer screen.
- 1.) Double click on the Control Panel Icon in the right hand column.
  - a.) Scroll down through the menu selection and double click on the Add Hardware Icon.
  - c.) The Add Hardware Wizard Menu will appear on your computer screen.
    - 1.) Click the Next Button at the bottom of the Add Hardware Menu Screen.
  - c.) The next Add Hardware Menu Screen will ask you if the Hardware is connected, select the "Yes, I have already connected the hardware" option.
    - 1.) Click the Next Button at the bottom of the Add Hardware Menu Screen.
  - d.) The next Add Hardware Menu Screen will ask you to select the Installed Hardware.
    - 1.) Scroll down the Installed Hardware List and select the "Kvaser USB can Rugged" or "Kvaser Leaf Light HS", this is the Kvaser CAN USB.
    - 2.) Click the Next Button at the bottom of the Add Hardware Menu Screen.
  - e.) The next Add Hardware Menu Screen will be the Completion Screen.
    - 1.) Click the Finish Button at the bottom of the Add Hardware Menu Screen.
    - 2.) The Add Hardware Menu will finish installing / updating the "Kvaser USB can Rugged" or "Kvaser Leaf Light HS" after which the Kvaser CAN USB and the Add Hardware Menu Screen will close.

B.) Click on the "X" in the top right corner of the Control Panel Menu.
- 1.) This will close the Control Panel Menu.

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(CONTINUATION FROM STEP NUMBER #19)

21.) The Found New Hardware Wizard should open up to the "Welcome Menu Screen", depending on which Operating System your computer is using you may or may not get the "Welcome Menu Screen".
   A.) Select the "No, not this time" Option in the Found New Hardware Wizard Welcome Menu Screen.
      1.) Click on the Next Button at the bottom of the Menu Screen.

22.) The Software Installation Menu should be the next Found New Hardware Wizard window that should appear.
   A.) Select the "Install the software automatically (Recommended)" Option in the Found New Hardware Wizard Software installation Menu.
      1.) Click on the Next Button at the bottom of the Menu Screen.
         a.) The New Found Hardware Wizard will now install the "Kvaser USBcan Rugged" software.

23.) The Completion Menu should be the next Found New Hardware Wizard window you should see.
   A.) Click on the Finish Button at the bottom of the Menu Screen.
      1.) The New Found Hardware Wizard will now finish installing the "Kvaser USBcan Rugged" software.
         a.) The New Found Hardware Wizard window will now close.

24.) Congratulations! You have now successfully loaded the Woodward TIER III MotoService, Crypt-Token and Kvaser USB CAN BUS software.

IMPORTANT!!!!

IN ORDER TO USE THIS SOFTWARE YOU MUST ENSURE YOU PROGRAMMED YOUR COMPUTER FOR THE APPROPRIATE TIER II OR TIER III SYSTEM.

In order to use the **MI07_RevK** or the **MI_04_Diagnostic_Display_revF**, the MotoUpdate File must have the proper selection in the Location Field, **REMEMBER PCM-1 is for TIER III and SECM-1 is for TIER II !!!!** In order to check the MotoUpdate File uses the following procedure.

1.) Turn the Key Switch to the "ON" Position, DO NOT START THE TRUCK!!
   A.) Insert Kvaser Cable Truck Connector into the Connector in the Lift Truck's Wiring Harness.

2.) Click on the Start Menu Button in the lower left corner of your computer screen.
   A.) Highlight the All Program Option at the bottom of the Start Menu Screen.
      1.) The Programs Menu will appear on your computer screen.

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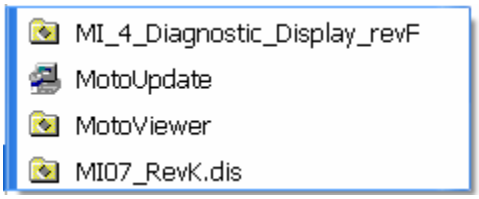
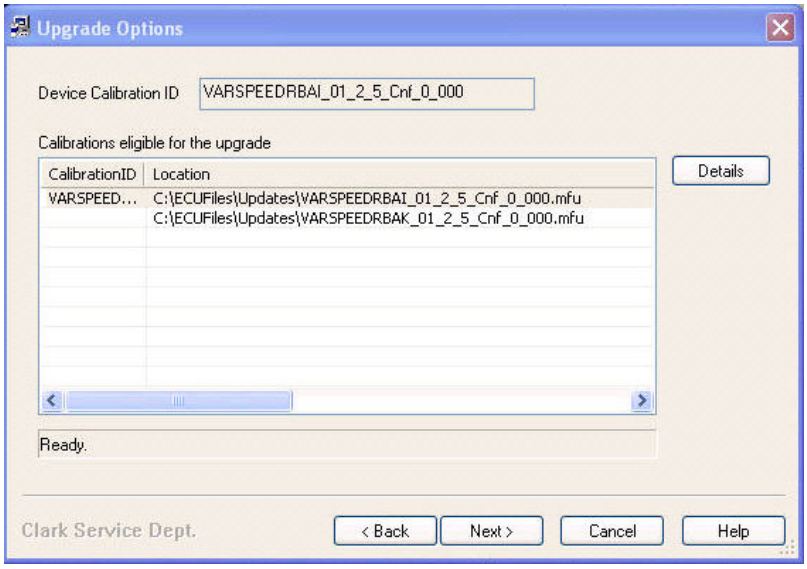
2.) Scroll down the Programs Menu to the MotoService Program.
   a.) The MotoService Menu will appear (as shown below or similar to it) to the right of the Programs Menu.



2.) Double click on the MotoUpdate File, the Welcome Menu Screen will appear, the Location Field is located in the right-side center of the screen.
   A.) Click on the down arrow next to the PCM-1/SECM-1 Field under Location, you should see the PCM-1 and SECM-1 Options in the Pull Down Menu.
      1.) In order to use MI07_RevK, you must have selected PCM-1 in the Location Field.
         a.) To select either PCM-1 or SECM-1 just click on it one (1) time.
      2.) In order to use MI_04_Diagnostic_Display_revf, you must have selected SECM-1 in the Location Field.
         a.) To select either PCM-1 or SECM-1 just click on it one (1) time.
         b.) Click the Next button at the bottom of the Menu Screen.
      3.) The Upgrade Options Window should appear as shown below:



         a.) The current programming of the Truck Control Module is listed in the “Device Calibration ID” Box.
         b.) The available Updates are listed in the “Calibrations eligible for the upgrade” Box.
            1.) The number in the “Device Calibration ID” Box should match the numbers in the “Calibrations eligible for the upgrade” Box.
            2.) **If the numbers match**, click on the Cancel Button at the bottom of the Menu Screen.

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A.) The Upgrade Options Menu will close and you are now ready to use the MotoViewer Software on your Lift Truck.

3.) If the numbers in the "Device Calibration ID" Box DO NOT MATCH the numbers in the "Calibrations eligible for the upgrade" Box, the Truck Control Module may need to be updated.

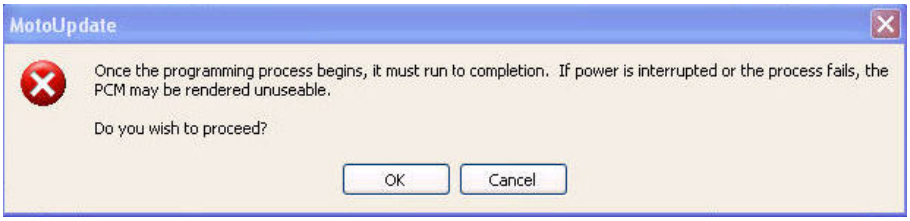
IMPORTANT: **BEFORE UPDATING THE TRUCK CONTROL MODULE, CONTACT CLARK SERVICE ENGINEERING (1-859-422-6423). IN CERTAIN SITUATIONS UPDATING THE TRUCK CONTROL MODULE MAY RENDER THE MODULE UNUSABLE.**

4.) If CLARK Service Engineering has approved the Updating of Truck Control Module Software, you will also be told what Software Update to select from the "Calibration eligible for upgrade" Box. Follow the procedure listed below:

A.) Click once on the Upgrade Software recommended by CLARK Service Engineering.
   1.) This will highlight the software.

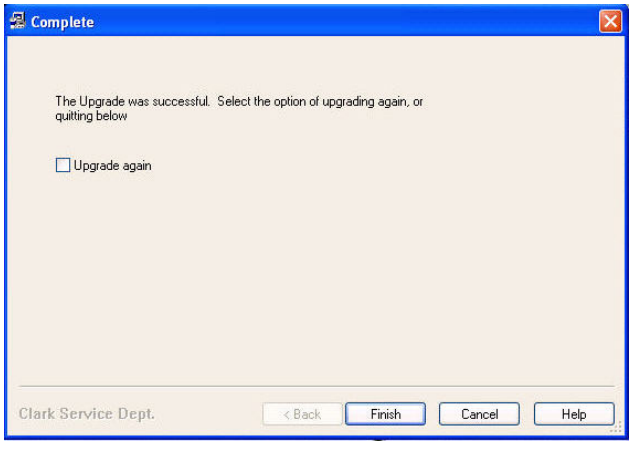
B.) Click the Next Button at the bottom of the Upgrade Options Menu.

C.) The MotoUpdate Menu Screen will appear as below, warning you not to interrupt the programming process once it begins.


MotoUpdate
Once the programming process begins, it must run to completion. If power is interrupted or the process fails, the PCM may be rendered unuseable.
Do you wish to proceed?
OK
Cancel

   1.) Click on the OK Button at the bottom of the MotoUpdate Menu Screen.
      a.) The Software is now being uploaded to the Truck Control Module.

D.) After the Software has been completely uploaded the Complete Menu Screen will appear as below.

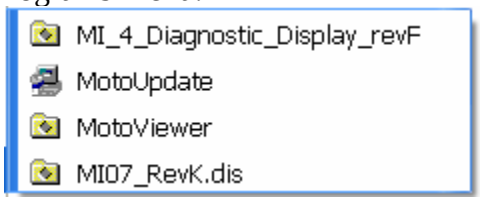


1.) Click on the Finish Button at the bottom of the Complete Menu Screen.
   a.) The Complete Menu Screen will close, the Software has been successfully uploaded and you are now ready to use the MotoViewer Software on the Lift Truck.

ENSURING THE WOODWARD TIER III SOFTWARE IS PROPERLY INSTALLED

IMPORTANT: The KAVASER CAN USB AND the CRYPT TOKEN must be connected to the Computer and to a TIER II or TIER III CLARK Lift Truck in order to check the software.

1.) Click on the Start Menu Button in the lower left corner of your computer screen.
   A.) Highlight the All Program Option at the bottom of the Start Menu Screen.
      1.) The Programs Menu will appear on your computer screen.
      2.) Scroll down the Programs Menu to the MotoService Program.
         a.) The MotoService Menu will appear (as shown below or similar to it) to the right of the Programs Menu.



   B.) Double Click on the MotoViewer File, after a few seconds the MotoViewer Menu will appear **IT WILL BE EMPTY.**
   C.) Go to the top left side of your computer screen and click on the word “File”.
   D.) Scroll down the File Menu and select the Open Option, the Files contained in the MotoViewer Folder will be displayed in the Open Menu Screen.
         b.) Double Click on the MI07_RevK File.
   E.) When the MI07 Service Display Truck Menu’s appear the “EPA 2007 Update” Software is functioning properly.
      1.) You can start the Lift Truck to ensure the software is monitoring the Lift Truck.
   F.) Click the “X” in the top right corner of all Menu’s and close all Menu Screens to exit the Software.

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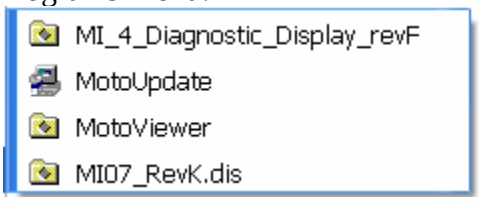
ENSURING THE WOODWARD TIER II SOFTWARE HAS BEEN PROPERLY RE-INSTALLED WITH ALL UPDATES

IMPORTANT: The KAVASER CAN USB AND the CRYPT TOKEN must be connected to the Computer and to a TIER II or TIER III CLARK Lift Truck in order to check the software.

1.) Click on the Start Menu Button in the lower left corner of your computer screen.
   A.) Highlight the All Program Option at the bottom of the Start Menu Screen.
      1.) The Programs Menu will appear on your computer screen.
      2.) Scroll down the Programs Menu to the MotoService Program.
         a.) The MotoService Menu will appear (as shown below or similar to it) to the right of the Programs Menu.



   B.) Double Click on the MotoViewer File, after a few seconds the MotoViewer Menu will appear **IT WILL BE EMPTY.**
      1.) Make sure the correct Truck Control Module has been selected (TIER II is SECM-1) in the "Welcome Screen Menu" of the MotoUpdate Menu.

   C.) Go to the top left side of your computer screen and click on the word "File".

   D.) Scroll down the File Menu and select the Open Option, the Files contained in the MotoViewer Folder will be displayed in the Open Menu Screen.
      1.) Double Click on the MI_04_Diagnostic_Display_revF File, the Online/No Online ECU's Available Menu should appear as shown above.
         a.) Click on the Yes Button, the ECU's Available Menu will close.
      2.) The MI_04_Diagnostic_Display_revF Service Display Truck Menu's should appear.
      3.) When the MI_04_Diagnostic_Display_revF Service Display Truck Menu's appear the "EPA 2007 Update" Software is functioning properly.
         a.) You can start the Lift Truck to ensure the software is monitoring the Lift Truck.
      4.) Click the "X" in the top right corner of all Menu's and close all Menu Screens to exit the Software.